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Patent
Attorney's Docket No. 030560-056
03 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Andreas BERNKOP-SCHNURCH) Group Art Unit: 1619
Application No.: 09/830,986) Examiner: M. Willis
Filed: April 20, 2001)
For: MUCO-ADHESIVE POLYMERS,)
USE THEREOF AND METHOD FOR)
PRODUCING THE SAME)

SUPPLEMENTAL AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Further to applicant's response filed August 27, 2002, enclosed is the executed Declaration of Andreas Bernkop-Schnurch, Ph.D. An unexecuted Declaration was submitted with the response. It is noted that minor changes were made to correct inadvertent errors in the unexecuted Declaration.

First, the TWA value for "polycarbophil" was inadvertently missing and has been added to the Table.

Second, to make the Table more clear, the formatting of the Table has been changes and lines have been added and changed. For example, single lines are now between the sets of polymers being compared, i.e., the unthiolated and thiolated polymers, while double lines exist between the different polymers.

The revised Table is as follows:



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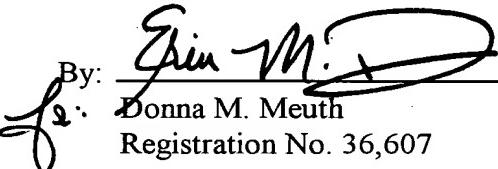
Polymer	Total work of adhesion in μJ ; means \pm SD (n= 3-8)	Reference
polycarbophil	110 \pm 28	A. Bernkop-Schnürch, V. Schwarz, S. Steininger, Polymers with thiol groups: a new generation of mucoadhesive polymers? Pharm. Res. 16 (1999) 876-881.
thiolated polycarbophil	280 \pm 68	
sodium carboxymethyl cellulose	108 \pm 17	A. Bernkop-Schnürch, S. Steininger, Synthesis and characterisation of mucoadhesive thiolated polymers, Int. J. Pharm. 194 (2000) 239-247.
thiolated sodium carboxymethyl cellulose	157 \pm 6	
chitosan HCl	23 \pm 10	C.E. Kast, A. Bernkop-Schnürch, Thiolated polymers: development and in vitro evaluation of chitosan-thioglycolic acid conjugates, Biomaterials 22 (2001) 2345-2352.
thiolated chitosan	234 \pm 0	
sodium alginate	26 \pm 1	A. Bernkop-Schnürch, C.E. Kast, M.F. Richter, Improvement in the mucoadhesive properties of alginate by the covalent attachment of cysteine, J. Control. Release 71 (2001) 277-285.
thiolated sodium alginate	102 \pm 36	

Further and favorable action in the form of a Notice of Allowance is respectfully requested. Such action is believed to be in order.

In the event that there are any questions relating to this Supplemental Amendment or to the application in general, it would be appreciated if the Examiner would contact the undersigned attorney by telephone at (508) 339-3684 so that prosecution may be expedited.

Respectfully submitted,

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Date: August 29, 2002